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10/604,123 06/26/2003		Peter J. Kumpon	47320.0129	1122		
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WALL MARJAMA & BILINSKI			CHEN, T	CHEN, TIANJIE		
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SYRACUSE, NY 13202			2652			
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Appl	ication No.	Applicant(s)			
Office Action Comments			04,123	KUMPON ET AL.			
	Office Action Summary	Exan	niner	Art Unit			
			ie Chen	2652			
Period fo	The MAILING DATE of this communica or Reply	tion appears o	n the cover sheet with the c	orrespondence ad	dress		
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nsions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above, the maximum statute are to reply within the set or extended period for reply will, reply received by the Office later than three months after ed patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In cation. ays, a reply within the ry period will apply by statute, cause the	no event, however, may a reply be ting the statutory minimum of thirty (30) day and will expire SIX (6) MONTHS from the application to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) filed of	on 22 July 200	05.				
·	2a)⊠ This action is <b>FINAL</b> . 2b)□ This action is non-final.						
3)□	,						
Disposit	ion of Claims						
5)[							
Applicat	ion Papers						
10)	The specification is objected to by the E The drawing(s) filed on is/are: a Applicant may not request that any objectio Replacement drawing sheet(s) including the The oath or declaration is objected to by	accepted on to the drawing correction is re	g(s) be held in abeyance. Sec equired if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CF	• •		
Priority (	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachmen	• •						
2) 🔲 Notic 3) 🔲 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO-1449 or PTO r No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	)-152)		

## Final Rejection

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1, 2, 4, 7-21, and 23-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Dimitri (US 5,818,723).

Claim 1. Dimitri shows a magazine-based data cartridge library in Fig. 1 including: a frame 120, a shelf system (the box including a plurality of 22,; column 3, lines 51-52), operatively attached to the frame, for supporting at least two data cartridge magazines 30 (Figs. 1 and 2; column 3, line 62)) and including at least one shelf 22; a drive 56 (Column 4, lines 18-19) that is operatively attached to the frame; a cartridge transport device 54 (Fig. 3; column 4, lines 51-54), operatively attached to the frame, for moving a data cartridge between one of the at least two data cartridge magazines and the drive, a magazine picker 70 for displacing one of the at least two data cartridge magazines towards and away from the shelf; and an elevator 118 and etc. for moving the magazine picker, wherein the magazine picker includes, a magazine support 74 and 76; and means 110 (Fig. 1; column 5, lines 58-59) for transporting one of the at least two data cartridge magazines between the magazine support and the at least two data cartridge magazines between the magazine support and the at least two data cartridge magazines between the magazine support and

the at least one shelf, the magazine support remains in substantially the same position (Column 5, lines 1-27).

Claim 2: Dimitri shows that the cartridge transport device includes the elevator 118 etc.

Claim 4: Dimitri shows that the magazine support includes a pair of support rails 78 for engaging one of the at least two data cartridge magazines.

Claim 7: Dimitri shows the means for transporting includes: means 74+76 (Fig. 3) for engaging one of the at least two data cartridge magazine, and means 98 for moving the means for engaging (Column 5, lines 1-9).

Claim 8: Dimitri shows that the means for engaging includes: a member 74 with a surface for contacting one of the at least two data cartridge magazines, an actuator 98 (Column 5, lines 21-27) for selectively providing a motive force for making the member so that the surface moves into and out of position to contact a data cartridge magazine; and a linkage on 98 (Fig. 4) that constrains the member to rotate about an axis.

Claim 9: Dimitri shows the actuator includes a rotational actuator 98 that provides a rotational motive force.

Claim 10: Dimitri shows that the rotational actuator includes an electric motor.

Claim 11: Dimitri shows that the means for engaging includes: a member with a first surface (the lower surface on 74) for contacting one of the at least two data cartridge magazines and a second surface (the upper surface on 76) for contacting one of the at least two data cartridge magazines that is separated from the first surface; an actuator 98 for selectively providing a motive force for moving the member so that the first and second surfaces move into and out of position to contact one of the at least

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two data cartridge magazines, and a linkage on 96 that constrains the member to rotate about an axis.

Claim 12: Dimitri shows that the member extends from a first terminal end (the tip of 74) to a second terminal end (the leftmost point on 96 on left side); the axis is located between the first and second terminal ends; and the first and second surfaces are located between the axis and the first terminal end.

Claim 13, Dimitri shows that the member extends from a first terminal end to a second terminal end; the axis is located between the first and second terminal ends; the first surface is located between the axis and the first terminal end; and the second surface is located between the axis and the second terminal end.

Claim 14, Dimitri shows a third surface (the lower surface of upper lip) for contacting one of the at least two data cartridge magazines and a fourth surface (the upper surface of the lower lip) for contacting one of the at least two data cartridge magazines that is separate from the third surface.

Claim 15, Dimitri shows the second surface includes a fifth surface on the front of the lip for contacting one of the at least two data cartridge magazines and a sixth surface at the rear of the lip for contacting one of the at least two data cartridge magazines that is separate from the fifth surface.

Claims 16 and 17: Dimitri shows that the actuator includes a rotational actuator 98 that provides a rotational motive force and the rotational actuator includes an electric motor.

Claim 18: Dimitri shows that the means for engaging includes: a member with a surface on 74 for contacting a data cartridge magazine, an actuator 70 for selectively providing a motive force for moving the member so that the surface moves into and

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out of position to contact one of the at least two data cartridge magazines, and a linkage 94+96 that constrains the member to move linearly.

Claim 19: A magazine-based data cartridge library, as claimed in claim 18, wherein: the actuator includes a linear actuator 70 that provide a linear motive force.

Claim 20: Dimitri shows that the linear actuator includes a solenoid 82 (Column 5, line 10).

Claim 21: Dimitri shows that the means for engaging includes a belt; and the means for moving includes an electric motor 98 for rotating the belt.

Claim 23: Dimitri shows that the means for moving includes an electrical motor 98.

Claim 24: Dimitri shows the means for moving includes a solenoid 82 (Column5, line 10).

Claim 25: Dimitri shows that the means for moving includes a lead screw 118.

Claim 26: Dimitri shows that the means for moving includes a belt-and-pulley system 110 etc. (Figs. 3 and 4).

Claim 27: Dimitri shows that the means for moving includes means 88 and 86 for linearly translating the means for engaging.

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claim 28 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dimitri in view of Baca (US 5,638,347).

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Claims 28 and 29: Dimitri does not show that the means for transporting includes means for sensing when the means for engaging has engaged a data cartridge magazine; and the means for sensing includes an optical sensor.

Baca shows the means for transporting includes means for sensing when the means for identifying successful picker inserts, successful picker picks, which should including sensing; and the means for sensing includes an optical sensor (Column 6, lines 44-49).

It would have been obvious at the time the invention was made to one of ordinary skill in the art to add the sensor for making the means transporting working properly; which would including determining that it has engaged a data cartridge magazine.

3. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dimitri in view of Fitzgerald et al(US 5,943,305).

Dimitri does not show an entry/exit port for conveying a data cartridge magazine between an environment that is exterior to a space defined by the frame and an entry/exit space that is interior to the space defined by the frame, wherein the entry/exit space is accessible to the magazine transport device.

Fitzgerald et al shows a device in Fig. 1 including an entry/exit port for conveying one of the at least two data cartridge magazines between an environment that is exterior to a space defined by the frame and an entry/exit space that is interior to the space defined by the frame.

It would have been obvious at the time the invention was made to one of ordinary skill in the art to add the entry/exit port in Dimitri's device. The rationale is as follows: Fitzgerald et al teaches that having a removable magazine would enable the operator to readily interchange optical disks whining the apparatus as a group without disassembly (Column 1, lines 59-62). One of ordinary skill in the art would have been motivated to as the port for wherein the entry/exit port for exchanging the disks. Thus added port would be accessible to the magazine transport device.

### Allowable Subject Matter

4. Claims 5, 6, 22, 30-32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

• Claims 5 and 6, as the closest reference, Dimitri (US 5,818,723) shows a library having a frame, a shelf system for supporting at least two data cartridge magazines, shelves; a drive; a cartridge transport device, an elevator, a magazine picker, wherein the magazine picker includes, a magazine support having a pair of rails; and means for transporting a data cartridge magazine between the magazine support and a shelf of the shelf system; but fails to show the means for transporting is located in a space between the pair of support rails; and the pair of support rails are adapted to engage a pair of data cartridge magazine rails.

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Claim 22, as the closest reference, Dimitri (US 5,818,723) shows a library
having a belt in means for engaging; but fails to show that the belt includes a
surface for engaging a surface of one of the at least two data cartridge
magazines.

- Claim 30-32, as the closest reference, Dimitri (US 5,818,723) shows a library having means for engaging, but fails to show that the means for engaging includes a force limiter that is located between the actuator and the member.
- Applicant asserts: this of a magazine-based library is able to load the drives faster than a cartridge-based library and in many cases, considerably faster (Specification, p. 9).

## Response to Arguments

- 5. Applicant's arguments filed 07/24/2005 have been fully considered but they are not persuasive.
  - Applicant argues: Nowhere does Dimitri disclose a magazine support structure
     <u>that stays substantially stationary</u> while a magazine is transported <u>via a means</u>
     <u>for transporting from</u> the substantially stationary magazine support structure
     <u>to</u> a shelf.
  - Examiner's position: Claim 1 does not recite: "substantially stationary," instead substantially the same position. In Dimitri, during transporting the support 74 and 76 remain in substantially same position in picker 70.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tianjie Chen whose telephone number is 571-272-7570. The examiner can normally be reached on 8:00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TIANJIE CHEN
PRIMARY EXAMME